

BSc (Hons) in Computing Science (HETAC)

CAO Code [GC 430](#)

Points level 2006 265 pts

Framework Level HETAC Level 8



Course Duration

Full-Time 4 years

Part-Time 3.5 years

For further information please contact the Admissions Office at GCD

Phone +353 1 415 0400

Email admissions@gcd.ie

Under the recent skills initiative the Department of Education and Science is funding up to 71 places per annum for students taking the Honours Computing Science Degree. This means that the first two years' fees will be funded by the Department of Education. The places will be allocated on a CAO points basis.

About the course

This honours degree programme is designed to turn students into experts in the application of computing science. Thus armed you will be able to address the challenges and opportunities that exist within business and industry environments.

The course has been carefully designed by a committee made up of leading figures in academia and the Irish computing industry. The course has the capacity to reflect and adapt to both technical and market developments. This external contribution guarantees that the course content and skills taught are relevant to the current and emerging job opportunities in the industry.

In Year 3, students must complete four taught modules and a 6-month work placement in the computing industry. The work placement experience serves two purposes. Firstly it provides you with invaluable work related computing experience, allowing you to draw on this experience during Year 4. Secondly, it significantly increases your attractiveness to potential employers. Students working in the industry and pursuing the evening programme may be granted an exemption from the work placement stage, depending on the nature of their employment experience.

The degree classification is based solely on the results obtained by students in Year 4. This stage comprises three compulsory modules, a project and two elective subjects. As part of our commitment to designing and delivering programmes that are both academically strong and also reflect the needs of the computing industry, the final year electives may change from year to year. The weighting of the final year project is equivalent to two taught modules.

Students are required to complete a number of significant software development projects throughout the programme. These projects have a strong industry focus and help consolidate and reinforce knowledge acquired from taught modules.

Progression

Once completed you can consider further study options here at Griffith College, in the form of an MSc in Computing Science (offered on a full/part-time basis), or at other institutions nationwide. Selected module content covers professional course material (granted by CISCO, Microsoft, Sun Microsystems Inc. etc.) which provides our students with sufficient knowledge to undertake

professional qualifications, should they wish to do so.

Careers

Graduates will be more than capable of thriving as assistant software project leaders, computer technology consultants, MIS (Management Information Systems) personnel, software engineers, systems analysts, applications programmers, etc. across a wide range of industry sectors.

John Ward - Chief Architect, BearingPoint, Ireland (please insert picture from new disc)
Since graduating in 1998 with a BSc (Hons) in Computing Science, John has focused his efforts on IT Consultancy specialising in Enterprise Architectures in the Financial and Public Sectors. John is the Chief Architect for BearingPoint's Public Services Broker (PSB) initiative which will provide a single point of access to public services; revolutionising citizen and business interaction with the Irish government. The Irish government agency known as Reach selected BearingPoint Ireland to build and operate this core Government solution and infrastructure.

My degree at Griffith College gave me a broad yet in-depth knowledge of the IT industry - a must in Enterprise Architecture- inspiring confidence in this area. Although I had some prior IT experience, it was my time at Griffith which gave me the solid foundation to meet my careers objectives.

BSc (Hons) in Computing Science Course Content

Year 1

- Programming Fundamentals
- Systems Analysis and Design
- Computer Architecture
- Programming and Information Processing
- Mathematics for Computing
- Business Organisation and Accounting
- Research and Communications Skills
- Systems Software and Assembly Language Programming

Year 2

- HCI and Windows Programming
- Relational Databases
- Object Oriented Design and Implementation
- Operating Systems and Networks
- Knowledge Based Systems
- Management Support Systems
- Team Project
- Multimedia and Internet Development

Year 3 Core Subjects

- Data Structures, Algorithms and Complexity
- Software Architecture Implementation
- Formal Design Methods
- Networks and Data Communications

Course Options

6-month monitored work placement within the computing industry. In many cases this work placement has resulted in subsequent full-time employment for students.

Work Placement Alternative

- Management Science
- E-Commerce and Business Processes
- Object Oriented Programming with Design Patterns
- Group Project – develop a practical application for IT from design through to implementation

Year 4 Core Subjects

- Concurrent Programming
- Advanced Network Theory
- Formal Specifications
- Software Development Project

Electives (Two out of the six electives must be chosen)

- Graphics
- Production Systems
- Artificial Intelligence
- Distributed Systems
- Programming and Compiler Theory
- Advanced Databases